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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

30-025-36901
RECEIVED
AUG 18 2005
CORRATED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator **MEWBOURNE OIL** Lease or Unit Name **OSUDO 7 ST. COM**

Type Test ☒ Initial ☐ Annual ☐ Special Test Date **4/28/2005** Well No. **1**

Completion Date **4/22/2005** Total Depth **12405** Plug Back TD **12303** Elevation **3653GL** Unit Ltr - Sec - TWP - Rge **J 7 21S 35E**

Csg. Size **5 1/2** Wt. **17** d **4.892** Set At **12402** Perforations: From: **11946** To: **12018** County **LEA**

Tbg. Size **2 7/8** Wt. **6.5** d **2.441** Set At **11863** Perforations: From: To: Pool **OSUDO**

Type Well-Single-Bradenhead-G.G. or G.O. Multiple **SINGLE** Packer Set At **11828** Formation **MORROW**

Producing Thru **TUBING** Reservoir Temp. **181** Mean Annual Temp. **60** Baro. Press. - P_a **13.2** Connection **SALES**

L **11863** H **11863** Gg **0.603** %CO₂ **0.427** %N₂ **0.33** %H₂S **0** Prover **N/A** Meter Run **3.067** Taps **FLG**

FLOW DATA					TUBING DATA		CASING DATA		FLG	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.	Duration of Flow
SI						3105				
1	3.067 X 1.750		552	143	64	1225				24 HRS
2										
3										
4										
5										

RATE OF FLOW CALCULATIONS

No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1							1056
2							
3	TOTAL	FLOW	METER				
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf bbl.
1					N/A	
2					A.P. I. Gravity of Liquid Hydrocarbons N/A	Deg.
3	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.603	XXXXXXX
4					Specific Gravity Flowing Fluid N/A	XXXXXX
5					Critical Pressure 674 P.S.I.A. N/A	P.S.I.A.
					Critical Temperature 354 R. N/A	R

P _c 3118.2	P _{c2} 9723.2			
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1243.6	1546.6	8176.6
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.189 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.189$$

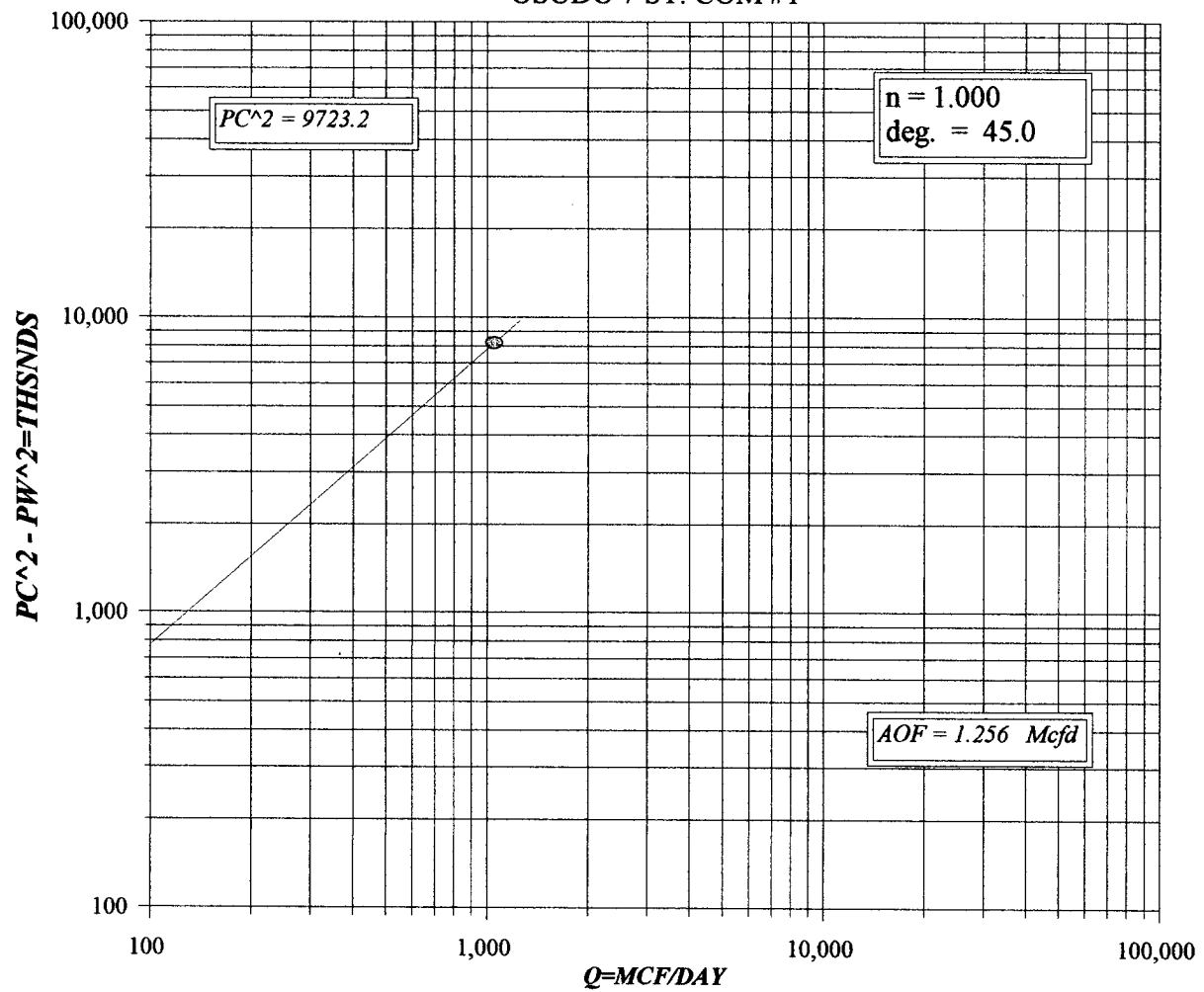
$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.256$$

Absolute Open Flow **1.256** Mcfd @ 15.025 Angle of Slope Q: **45** Slope, n: **1**

Remarks: **WELL MADE 15 BBLS OF 55.1 API GRAVITY CONDENSATE DURING TEST.**

Approved By Division: **MEWBOURNE OIL** Conducted By: **MERV BUECKER** Calculated By: **MB** Checked By:

MEWBOURNE OIL
OSUDO 7 ST. COM #1



COMPANY : MEWBOURNE OIL		LEASE : OSUDO 7 ST.		WELL NO. : 1		Pc = 3118.2		Pc2 = 9723.2	
UNIT : J		SECTION : 7		TOWNSHIP : 21s					
L : 11863		H : 11863		L/H : 1		G/GMIX : 0.603		Pt2 = 1533.1	
%CO2 : 0.427		%N2 : 0.33		H2S : 1		DATE : 4/28/05		Pw = 1243.6	
d : 2.441		Fr : 0.010763		GH : 7153.4		RANGE : 35e		0.0	
								0.0	
								0.0	
VOL 1 : 1056		PSIA 1 : 1238.2		RESV.TEMP : 181.0		Pc2-Pw2= 8176.6		Pw2 = 1546.6	
VOL 2 :		PSIA 2 :				#DIV/0!		#DIV/0!	
VOL 3 :		PSIA 3 :		SHUT-IN PRI = 3118.2		#DIV/0!		#DIV/0!	
VOL 4 :		PSIA 4 :				#DIV/0!		#DIV/0!	
		PCR : 674						n = 1.000	
		TCR : 354							
LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST		1ST		1ST		1ST	
		2ND		2ND		2ND		2ND	
1	QM	1.056	1.056	0.000	0.000	0.000	0.000	0.000	0.000
2	TW	534	534	534	534	534	534	534	534
3	Ts	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
4	T	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5
	PR (est)	1.84		0.00		0.00		0.00	
5	Z(est)	0.865	0.854	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6	TZ	508.3	501.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
7	GH/TZ	14.073	14.265	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8	eS	1.695	1.707	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9	I-e-S	0.410	0.414	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10	Pt	1238.2	1238.2	0.0	0.0	0.0	0.0	0.0	0.0
11	Pt2 /1000	1533.1	1533.1	0.0	0.0	0.0	0.0	0.0	0.0
12	Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763
13	Fc=FrTZ	5.471	5.397	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
14	FcQm	5.78	5.70	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15	L/H(FcQm)2	33.4	32.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
16	Fw	13.68714	13.45813	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
17	Pw2	1546.8	1546.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
18	Ps2	2622.0	2640.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
19	Ps	1619.3	1625.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20	P	1428.7	1431.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	Pr	2.12	2.12	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
22	Tr	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
23	Z	0.854	0.853	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
								FORM C122-D	